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(71) Applicant (for all designated States except US): CRESSET BIOMOLECULAR DISCOVERY LIMITED [GB/GB]; Spierlla Buildings, Suite 203, Bridge Road, Letchworth, Hertfordshire SG6 4ET (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ASHWORTH, Phillip, Anthony [GB/GB]; c/o Cresset Biomolecular Discovery Limited, Spirella Building, Suite 203, Bridge Road, Letchworth, Hertfordshire SG6 4ET

(GB). CHEESERIGHT, Tim [GB/GB]; c/o Cresset Biomolecular Discovery Limited, Spierlla Buildings, Suite 203, Bridge Road, Letchworth, Hertfordshire SG6 4ET (GB). MACKEY, Mark, Denis [GB/GB]; c/o Cresset Biomolecular Discovery Limited, Spierlla Buildings, Suite 203, Bridge Road, Letchworth, Hertfordshire SG6 4ET (GB). VINTER, Jeremy, Gilbert [GB/GB]; c/o Cresset Biomolecular Discovery Limited, Spierlla Buildings, Suite 203, Bridge Road, Letchworth, Hertfordshire SG6 4ET (GB).

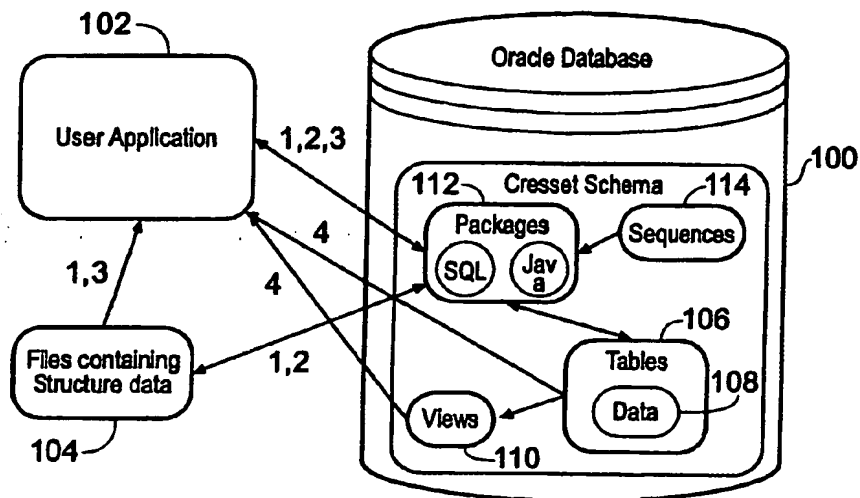
(74) Agents: HAINES, Miles, John et al.; D Young & Co, 21 New Fetter Lane, London EC4A 1DA (GB).

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(54) Title: SEARCHABLE MOLECULAR DATABASE



(57) Abstract: A computer system comprising a database (100) having a plurality of records is provided. Each record comprises a filed point representation representing field extrema for a conformation of a chemical structure. The database may include records for multiple conformations of the same chemical structure. Each record can have a searchable index of the filed point representation. In one embodiment the index is bit string. An indexing mechanism for generating an index, a searching mechanism for searching the database and a graphical user interface to enable a user to interface with the database (100) are also provided.